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Apr 20, 1999

PUB-NO: JP411103915A

DOCUMENT-IDENTIFIER: JP 11103915 A

TITLE: MAGNETIC BRACELET WITHOUT USING THROUGH CORD AND METALLIC CONNECTOR PUBN-DATE: April 20, 1999

INVENTOR-INFORMATION: NAME

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COUNTRY

ASSIGNEE-INFORMATION: NAME

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COUNTRY

APPL-NO: JP09311012

APPL-DATE: October 6, 1997

INT-CL (IPC): A44 C 25/00; A44 C 5/00; A44 C 5/00; A61 N 2/08 ABSTRACT:

PROBLEM TO BE SOLVED: To unnecessitate a through cord and a metallic connector, to separate balls from each other by putting a ferromagnetic magnet such as a neodymium magnet in a nonmagnetic matter whose force sucked to a magnet is weak and to enrich variety by separating the balls from each other and combining various balls to vary the length of the whole of them.

SOLUTION: The structure of the ball is prepared by putting the ferromagnetic magnet 2 in the form as a cylinder in a nonmagnetic matter 1. At the time of equalize the radius of curvature of the surface of the magnet 2 with the radius of curvature of the matter 1, the whole balls are made spherical to arrange the balls neatly in a ring-form. The balls are not detached easily from one another even at the time of swinging around a hand once they are attracted the operation of the magnet 2. At the time of providing a curvature for the surface of a magnet to bring the ball nearly into point contact with each other, the balls can simply be detached by the multiplier effect of the reduction of magnetic force line made by putting a finger into mutual balls in a direction vertical to the attracting direction of the mutual balls and the operation of a lever while having strong attracting force in the COPYRIGHT: (C)1999, JPO

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Fig 3(2) BEAD CONSISTS OF A SPHENNICAL MAGNET Fig 4 (a) DIFFENEUT COLON COATINGS ON MAGNETT

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A 6 1 N	2/08		A 6 1 N 1/42	Н
			審查請求 未請求	請求項の数4 書面 (全 4 頁)

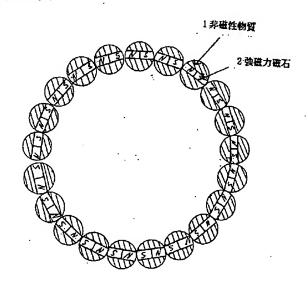
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(54) 【発明の名称】 通しひも、連結金具を用いない磁気プレスレット

(57)【要約】

【課題】 玉を構成要素とするブレスレットにおいて、 通しひもや連結金具を使用しないで、ブレスレットを構成している玉そのものを自由に取り外しができるように し、玉の様々な組合せ(色,形,大きさ等)を可能にして、非常に多様性に富んだブレスレットを提供すること が目的である。

【解決手段】 ブレスレットを構成している玉として磁石に吸いつく力の弱い物質を使用しその中にネオジム磁石等の磁力の強い磁石を入れる。磁力を利用してこれらの玉を次々と連結させてリング状にしブレスレットを形作る。



【特許請求の範囲】

【請求項1】 通しひもや連結金具を用いている通常の 玉を構成要素とするブレスレットにおいて、磁石に吸い つく力の弱い物質(1)の中にネオジム磁石等の磁力の 強い物質(2)を入れて作成した玉を構成要素とし、通 しひも、連結金具を用いないで玉同志の磁力を利用して 次々と玉を連結させて構成された磁気ブレスレット。

1

【請求項2】 物質(1)の両側に円板型の窪み(3) を開け、それぞれの窪みに円板型磁石(4)を入れた玉 を構成要素とする請求項1のブレスレット。

【請求項3】 磁気ブレスレットを構成している玉の一 部を全体が磁石でできた玉(5)で構成し、玉(5)に 一部が磁性物質でできた装飾品(6)を吸着させた請求 項1のブレスレット。

【請求項4】 玉の色、大きさ、形を様々に組み合わせ た請求項1のブレスレット。

【発明の詳細な説明】

[0001]

【発明の属する技術分野】この発明は玉を構成要素とす るプレスレットにおいて、通しひもや連結金具を使わず 20 各々の玉を磁石の力を利用してつなげたブレスレットに 関するものである。

[0002]

【従来の技術】従来の玉を構成要素とするブレスレット は各々の玉に穴を開けそこに連結金具を用いたりひもを 通すなどして商品としていた。また磁石を一部の玉に使 用したネックレスはあったが目的は健康効果や部分的連 結であり、ひも等が使用されていた(公開実用平4-3 6821)。玉の半分程度を磁性物質でおおい、アクセ サリー基盤と玉を磁石やネジ等を使って着脱するアクセ 30 サリーもあった(特開平8-38224)が、ブレスレ ットが玉のみを構成物質とし、しかも一度吸着したら容 易にはずれず、かつ指ではずそうとしたら簡単にはずせ る構造を持つブレスレットはなかった。

[0003]

【発明が解決しようとする課題】従来の玉を構成要素と するブレスレットには次のような欠点があった。通しひ もや連結金具があるために玉ははずせず位置は固定され ており、玉の様々な組合せ(色,形,大きさ等)が不可 能で多様性に欠けていた。本案はこれらの欠点を解消す 40 るためになされたものである。

[0004]

【課題を解決するための手段】この発明に係わるブレス レットは、以上のような課題を解決したもので、次のよ うな構造をしたものである。図1に示したようにお互い の玉同志の吸着力として磁力を利用する。 ブレスレット の構成要素となる玉の構造として磁石に吸いつく力の弱 い物質(以下、非磁性物質と略す)1の中にネオジム磁 石等の磁力の強い磁石(以下、強磁力磁石と略す)2を

リング状に並べてブレスレットを形作る。

[0005]

【発明の実施の形態】ブレスレットの構成要素である玉 は一方がN極、他方がS極となっている。このため玉の N極(またはS極)ともう一つの玉のS極(N極)を近 づければ自然に互いの玉同志は引き合い吸着する。玉の N極(またはS極)ともう一つの玉のN極(S極)を近 づけたとしても、玉同志は反発するため自然に玉は回転 し、お互いの玉は容易に吸着する。これを繰り返してリ 10 ング状にしブレスレットが出来上がる。

[0006]

【実施例】

実施例1

図1に基づいて実施例1を説明する。ブレスレットを形 成している玉同志以外の周囲の様々な磁性物質を引き寄 せないためにはブレスレットの周囲に広がる磁力線の数 や密度を低減させる必要がある。さらに通しひもや連結 金具を用いないで玉同志を連結させるためには強磁力磁 石を使用する。このためには図1に示したように玉の構 造として非磁性物質1の中に円筒型の強磁力磁石2を入 れて作成する。磁石2の表面の曲率半径は非磁性物質1 の曲率半径に等しくなるようにすると玉全体として球状 になり、玉同志はきれいにリング状に並べることができ る。玉同志は強磁力磁石の作用で一度吸着すると手を振 り回しても容易にはずれない。これは玉同志の吸着方 向、すなはち磁力線の方向には強い吸着力を持っている からである。ここで磁石の表面に曲率を持たせてお互い の玉をほぼ点接触させると、磁力線の方向に強い吸着力 を持ちつつ、玉同志の吸着方向とは垂直の方向(磁力線 に垂直な方向)には、指を玉同志の中に入れることによ る磁力線の減少およびてこの作用との相乗効果で簡単に 引き離すことができる。また磁石2を非磁性物質1に挿 入後玉全体を着色したり、磁石2を非磁性物質1の内部 に入れてフタをすれば磁石2は外側から見えず美的特性 が増す。

【0007】実施例2

図2に基づいて実施例2を説明する。図2(a)に示し たように非磁性物質1の表面の一部に円板型の窪み3を 開け真反対側にも円板型の窪み3を開け、それぞれの窪 みに円板型磁石4を接着した玉を構成要素とする磁気ブ レスレット。円板型磁石4の表面側の曲率半径は非磁性 物質1の曲率半径に等しくすれば、実施例1と同様に玉 同志は綺麗にリング状に並び、着脱が容易になる。表面 側の磁石の極は2つの磁石で反対でも同じでもよい。ま た図2(b)に示したように2個の窪み3の中心を玉同 志の吸着方向に向けるとさらに玉同志はスムーズにつな がる。

【0008】実施例3

図3に基づいて実施例3を説明する。図3(a)に示し 入れて作成し、この玉を磁力を利用して次々と連結させ 50 たようにブレスレットを構成している玉のうち数個を全 3

体が磁石である磁石玉5を使用する。一方図3(b)に示したようにアルファベットやハート型の装飾品6を磁性物質7と非磁性物質8で作成する。磁性物質7には磁石玉5と同一の曲率半径を持つ窪み9があり、この窪みの中に磁石玉5を吸着させる。これらの装飾品は磁気ブレスレットにワンポイント効果をもたらす。

【0009】実施例4

図4に基づいて実施例4を説明する。玉の色を様々に組み合わせた実施例1のブレスレットの一例を図4(a)に示す。図4(b)は玉の大きさを、また図4(c)は 10玉の形をそれぞれ様々に組み合わせたブレスレットの一例である。さらにこれら3要素を組み合わせることも可能である。

[0010]

【発明の効果】外側が非磁性物質で内部に強磁力磁石を 挿入した玉を構成要素とする磁気ブレスレットは通しひ もや連結金具が不用である。また構造が複雑でないため 安価に仕上がる。玉同志は強磁力磁石のためしっかりと 吸着されている一方、磁石の表面に曲率を持たせてお互 いの玉をほぼ点接触させると、玉同志の吸着方向とは垂 直の方向(磁力線に垂直な方向)からは指を玉同志の中 に入れることによる磁力線の減少およびてこの作用との 相乗効果で玉同志は簡単に引き離すことができる。また ひも、連結金具を使用しないため本発明においては各個 人が様々な色、形、大きさの玉を組み合わせて、全体の 長さも変えられ非常にバラエティに富んだブレスレット

が作成可能となる。アルファベットやハート型等の装飾品も玉の一部に吸着させればワンポイント効果も生まれ、幼児が使えば楽しみながらの学習効果も期待できる。そして完成されたブレスレットは限りなく様々な種類のものが出来上がる。まさに新しいブレスレットの形態と言える。そしてそれは各個人の個性が浮き出た特有のものとなる。

【図面の簡単な説明】

【図1】本考案の断面図である。

0 【図2】本考案の実施例2を示した断面図である。

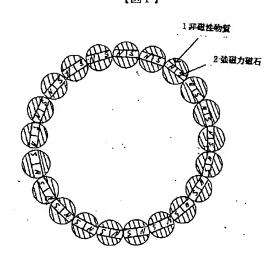
【図3】本考案の実施例3を示した断面図および斜視図である。

【図4】本考案の実施例4を示した平面図である。

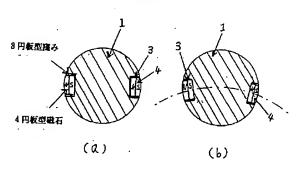
【符号の説明】

- 1 非磁性物質
- 2 強磁力磁石
- 3 円板型窪み
- 4 円板型磁石
- 5 磁石玉
- 0 6 装飾品
 - 7 磁性物質
 - 8 非磁性物質
 - 9 窪み
 - 10 色A
 - 11 色B
 - 12 色C

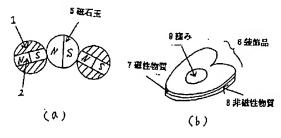
【図1】



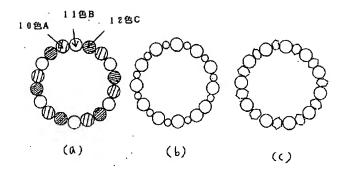
【図2】



【図3】



【図4·】



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Apr 20, 1999

DERWENT-ACC-NO: 1999-305875

DERWENT-WEEK: 199926

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TITLE: Cordless magnetic bracelet used by children - consists of serially connected balls made of non-magnetic material having neodymium magnet, penetrated through

hollow disc on either side of wall

PATENT-ASSIGNEE:

ASSIGNEE

CODE

SAKURAI C

SAKUI

PRIORITY-DATA: 1997JP-0311012 (October 6, 1997)

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PATENT-FAMILY:

. PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

<u> јр 11103915 А</u>

April 20, 1999

004

A44C025/00

APPLICATION-DATA:

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DESCRIPTOR

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INT-CL (IPC): A44 C 5/00; A44 C 25/00; A61 N 2/08

ABSTRACTED-PUB-NO: JP 11103915A

BASIC-ABSTRACT:

NOVELTY - The magnetic bracelet consists of balls connected magnetically. A Neodymium magnet (2), possessing strong magnetism is penetrated inside the ball-like non-magnetic material (1) via a hollow disc on either side of the ball.

USE - For use by children.

ADVANTAGE - Bracelet is cheap as it is easy to make because of its simple structure. Various color combination can be made and the length of bracelet can be changed since cord and connection fittings are not used. DESCRIPTION OF DRAWING(S) - The figure shows the sectional view of the design of magnetic bracelet. (1) Non-magnetic material; (2) Neodymium magnet.

CHOSEN-DRAWING: Dwg.1/4

TITLE-TERMS: CORD MAGNETIC BRACELET CHILD CONSIST SERIAL CONNECT BALL MADE NON MAGNETIC MATERIAL NEODYMIUM MAGNET PENETRATE THROUGH HOLLOW DISC SIDE WALL

DERWENT-CLASS: P23 P34 S05

EPI-CODES: S05-A03E;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1999-229256

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- 2.*** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the bracelet which connected each ball using the magnetic force without using a through string or connecting fitting in the bracelet which uses a ball as a component.

[0002]

[Description of the Prior Art] The bracelet which uses the conventional ball as a component made the hole in each ball, and connecting fitting was used there and it was using it as goods through the string. Moreover, although there was a necklace which used the magnet for some balls, the purposes are the health effectiveness and partial connection and the string etc. was used (open practical use Taira 4-36821). the accessory which covers one half extent of a ball qualitatively of a magnetic matter, and detaches and attaches an accessory base and a ball using a magnet, a screw, etc. — it was (JP,8-38224,A) — once the bracelet used only the ball as the constituent and moreover adsorbed it, it did not separate easily, and when it was going to remove with the finger, there was no bracelet with the structure which can be removed easily.

[0003]

[Problem(s) to be Solved by the Invention] The bracelet which uses the conventional ball as a component had the following faults. Since there were a through string and connecting fitting, the ball could not be removed, but it is fixed, and various combination (a color, a form, magnitude, etc.) of a ball was impossible for the location, and it lacked in versatility. **** is made in order to cancel these faults. [0004]

[Means for Solving the Problem] The bracelet concerning this invention is what solved the above technical problems, and has the following structures. As shown in <u>drawing 1</u>, magnetism is used as each other ball comrade's adsorption power. Put in and create the magnet 2 with the powerful magnetism of a neodymium magnet etc. (it abbreviates to a strong magnetism magnet hereafter) in the weak matter (it abbreviates to the nonmagnetic matter hereafter) 1 of the force which sticks to a magnet as structure of the ball used as the component of a bracelet, this ball is made to connect one after another using magnetism, it arranges in the shape of a ring, and a bracelet is formed.

[Embodiment of the Invention] One side serves as N pole and, as for the ball which is the component of a bracelet, another side serves as the south pole. For this reason, if the south pole (N pole) of one ball with which a ball will be rich N pole (or south pole) is brought close, an automatically mutual ball comrade will pay well and adsorb. Even if it brings close N pole (south pole) of one ball with which a ball will be rich N pole (or south pole), in order that a ball comrade may oppose, a ball rotates with nature, and it sticks to each other ball easily. This is repeated, it is made the shape of a ring, and a

bracelet is done. [0006]

[Example]

An example 1 is explained based on example 1 <u>drawing 1</u>. In order not to draw near various qualities of a magnetic matter of perimeters other than the ball comrade who forms the bracelet, it is necessary to

reduce the number and consistency of line of magnetic force which spread around a bracelet. In order to make a ball comrade connect without using a through string and connecting fitting furthermore, a strong magnetism magnet is used. As for that shown in <u>drawing 1</u>, the cylindrical strong magnetism magnet 2 is put in and created in the nonmagnetic matter 1 as structure of a ball. If it is made for the radius of curvature of the front face of a magnet 2 to become equal to the radius of curvature of the nonmagnetic matter 1, it becomes spherical as the whole ball and a ball comrade can arrange in the shape of a ring finely. Once a ball comrade adsorbs in an operation of a strong magnetism magnet, even if he will brandish a hand, it does not separate from him easily. This is because it has strong adsorption power in a ball comrade's adsorption direction, and the direction of **** bee line of magnetic force. In the direction (direction perpendicular to line of magnetic force) perpendicular to a ball comrade's adsorption direction, it can pull away easily by reduction of the line of magnetic force by putting in a finger into a ball comrade, and the synergistic effect with an operation of a lever, having adsorption power strong against the direction of line of magnetic force, when curvature is given on the surface of a magnet here and point contact of each other ball is carried out mostly. Moreover, if a magnet 2 is colored the nonmagnetic matter 1 for the whole ball after insertion, or a magnet 2 is put into the interior of the nonmagnetic matter 1 and it covers, a magnet 2 will not appear from an outside but its esthetic property will increase.

[0007] An example 2 is explained based on example 2 <u>drawing 2</u>. The magnetic bracelet which uses as a component the ball which opened the disk rabbit ear 3 in a part of front face of the nonmagnetic matter 1, opened the disk rabbit ear 3 also in the true opposite side as shown in <u>drawing 2</u> (a), and pasted up the disk mold magnet 4 on each hollow. If the radius of curvature by the side of the front face of the disk mold magnet 4 is made equal to the radius of curvature of the nonmagnetic matter 1, as for a ball comrade, a list and attachment and detachment will become easy finely like an example 1 at the shape of a ring, the pole of the magnet by the side of a front face — two magnets — the contrary — even when — being the same. Moreover, if the core of two hollows 3 is turned in a ball comrade's adsorption direction as shown in <u>drawing 2</u> (b), a ball comrade will be connected further smoothly.

[0008] An example 3 is explained based on example 3 drawing 3. The magnet ball 5 whose whole is a magnet about some is used among the balls which constitute the bracelet as shown in drawing 3 (a). As shown in drawing 3 (b) on the other hand, the accessories 6 of the alphabet or a heart mold are created by the quality 7 of a magnetic matter, and the nonmagnetic matter 8. There is a hollow 9 which has the same radius of curvature as the magnet ball 5 in the quality 7 of a magnetic matter, and the magnet ball 5 is made to adsorb into this hollow. These accessories bring the one spot effectiveness to a magnetic bracelet.

[0009] An example 4 is explained based on example 4 <u>drawing 4</u>. An example of the bracelet of the example 1 which combined the color of a ball variously is shown in <u>drawing 4</u> (a). It is an example of the bracelet with which <u>drawing 4</u> (b) combined the magnitude of a ball, and <u>drawing 4</u> (c) combined the form of a ball variously, respectively. It is also possible to combine these 3 element furthermore. [0010]

[Effect of the Invention] The magnetic bracelet which uses as a component the ball with which the outside inserted the strong magnetism magnet in the interior by the nonmagnetic matter has a through string and unnecessary connecting fitting. Moreover, since structure is not complicated, it is finished cheaply. If the ball comrade gives curvature on the surface of a magnet and does point contact of each other ball mostly while he is firmly adsorbed for the strong magnetism magnet, a ball comrade can pull away easily by reduction of the line of magnetic force by putting in a finger into a ball comrade from a direction (direction perpendicular to line of magnetic force) perpendicular to a ball comrade's adsorption direction, and the synergistic effect with an operation of a lever. Moreover, since a string and connecting fitting are not used, creation of the bracelet with which the whole die length was also changed and with which each people were very rich in variety combining the ball of various colors, a form, and magnitude in this invention is attained. Accessories, such as the alphabet and a heart mold, are made to stick to some balls, and the one spot effectiveness is born, and the study effectiveness if a small child uses, while enjoying itself can also be expected. And the thing of a class with them is done. [the completed infinite bracelet and] [various] It can just be said to be the gestalt of a new bracelet. And it becomes the

characteristic thing in which each people's individuality loomed.

[Translation done.]